

Capacity of The Ministry of Interior for GMES integration

RISK AND THREATS



Crisis and emergency situations

Occurred as a result of:

- Taking of hostages;
Occupying of socially important buildings;
Occupying of critical infrastructure objects;
Threat of use of explosives and weapons of mass destruction

Occurred as a result of:

- Criminal activity with use of explosives and weapons of mass destruction;
Large-scale accidents, catastrophes and fires;
Disasters as a result of natural phenomena and cataclysms.

Public order maintenance and border guarding:

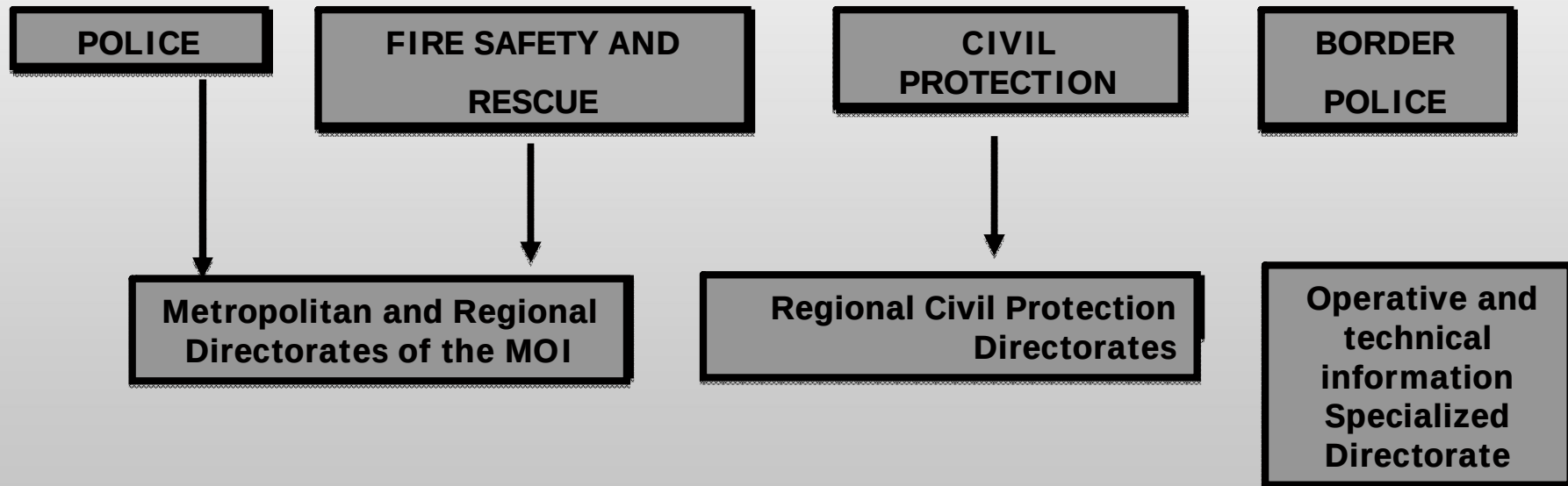
- Mass guarding and mass disorder overcoming;
Escort and physical protection of extremely dangerous loads;
VIP persons guarding.

Crises on the territory of other countries:

- Participation in operations after a crisis;
Humanitarian operations

Functional structure of the Ministry of Interior

GENERAL DIRECTORATES



MoI priorities related to GMES possibilities:

1.National security protection

2.Terrorism protection, counteraction to criminality and public order maintenance, protection of the rights and freedoms of the citizens and protection of their life, health and property. Road transport and traffic safety control.

3. Population and critical infrastructure protection, Fire safety and firefighting activities, Emergency and rescue activities.

4. Develops and supports a system of Situation Centers for 24/7 coordination with the teams and resources of the executive power authorities that are part of the Integrated Rescue System for support, recovery, resources supply and accepting of humanitarian assistance. Provides the managing activity of the state power authorities in case of crises, disasters and other emergency situations.

5. Sets up, supports and develops the communication and information systems for provision of the MoI and the state power bodies.

Accepts, processes and registers the emergency calls of to the Single European 112 Number and realizes information exchange with the services for emergency response.

6. Guarding and controlling of national borders, realization of border regimen, passport and visa control, control and counteraction of the illegal migration;

7. 24/7 satellite monitoring of the territory of the country in real time and providing of information for disaster risk management through the Aerospace Monitoring Center

8. Scientific and research activities in the field of: national security, counteraction of criminality and public order maintenance, guarding of the outside borders of the European Union, protection in case of crisis, disasters and other emergency situations.

9. International cooperation in the field of civil security, population protection and participation in humanitarian crisis management.

MOI's operations

OPERATIONS AGAINST CRIMINAL ACTIVITY, INCLUDING ANTI-TERRORISTIC OPERATIONS

SEARCH AND RESCUE OPERATIONS

CIVIL PROTECTION AND CRITICAL INFRASTRUCTURE

PROTECTION OF LAW AND ORDER

FIREFIGHTING OPERATIONS

OPERATION ON THE TERRITORY OF OTHER COUNTRIES

MOI Capacity related to GMES

Science and research

- MoI institutes and structures

Geo-information

- Geo-information system for crisis and emergency management, geo-portal

Land

- Fire rescue (user), civil protection

Ocean

- Border police, civil protection

Atmosphere

- Civil protection, fire rescue

Climate and climate change

- Civil protection, fire rescue, border police

Emergency management of natural hazards

- Crisis and emergency management system

Infrastructure

- Border police, police, civil protection, fire rescue

Global Monitoring for Environment and Security (GMES) joint initiative of the European Commission and European Space Agency

overview of GMES services



Land Monitoring (Geoland2)
Ocean Monitoring (MyOcean)
Atmosphere Monitoring (MACC)
Security (G-MOSAIC)

Land and Sea Monitoring for Environment and Security (LIMES)

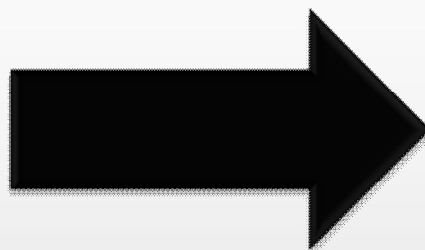
Emergency Response (SAFER)

**land, marine and
atmosphere
information**

**climate change
information**

**emergency and
security information**

Emergency Response (SAFER)



- **National Point of Contact**

Aerospace Monitoring Center

DG Civil Protection

SAFER is the preoperational version of the Emergency Response Core Service

SAFER will reinforce European capacity to respond to emergency situations and meet the operational requirements of European civil securities and humanitarian crisis actors.

Supports the risk management process of natural hazards and disasters

5 meteorological satellites

**National Oceanic and Atmospheric
Administration (NOAA)**



NASA

**Earth Observing Satellite
TERRA and AQUA**



**24-hour satellite monitoring in real time at
the territory of Bulgaria and Europe**

Basic Equipment

**Geographic
information
systems
Arc GIS**

**Image processing
software - ERDAS,
ENVI**

**System for video
monitoring in real
time**

**Satellite images
with 32 m. ground
resolution for
2007 and 2008**

**Software for
hydrological
modeling**

**Methodology for rain
rates probability
estimation**

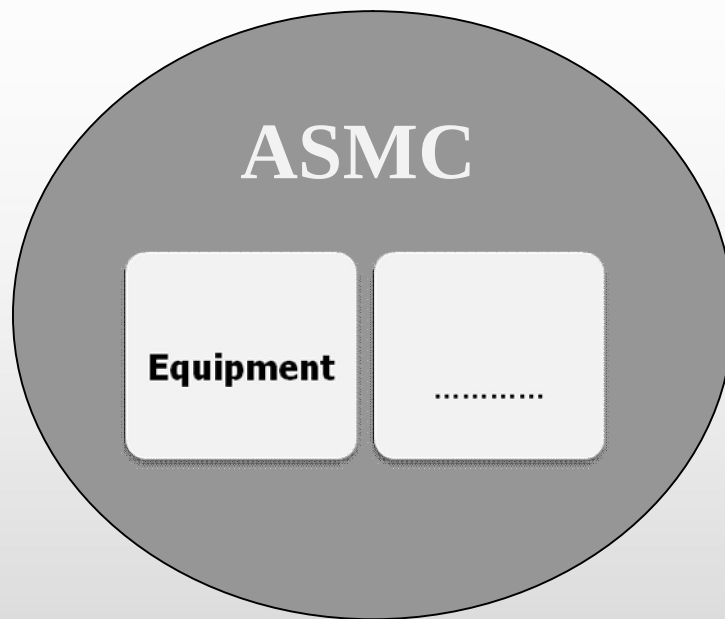
**National database and
spectral library for
vegetation index and
agriculture data for the
last 10 years**

**A satellite- Based
Automatic Fire
Detection and Analysis
Tool**

**Full suite of Algorithms
developed by the
NASA MODIS Science
Teams for Level 1,
Level 2 and Level 3
processing**

Integration of data from different sources

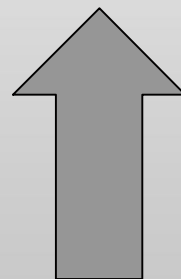
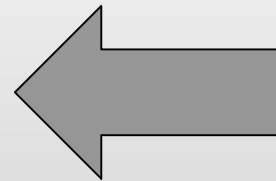
Integration of data from different sources



Hail Suppression Agency

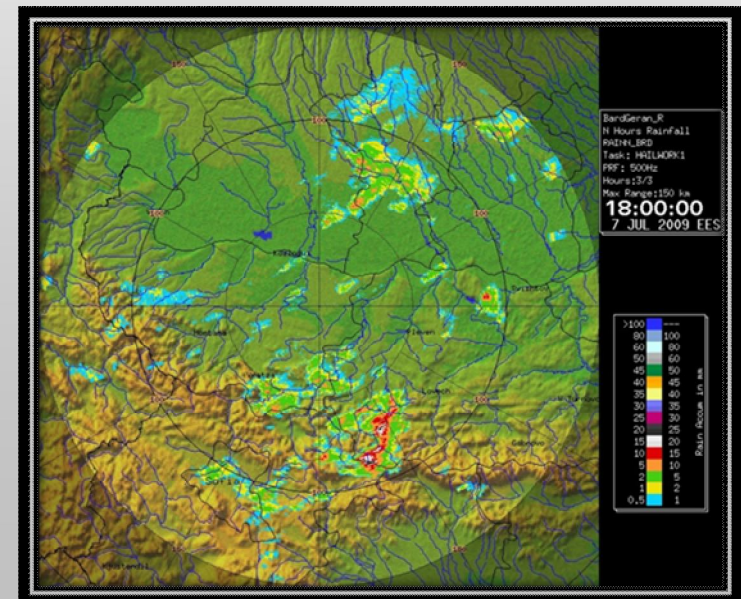
Weather Doppler Radars

Every three minutes



Emergency Response (SAFER)

National Point of Contact

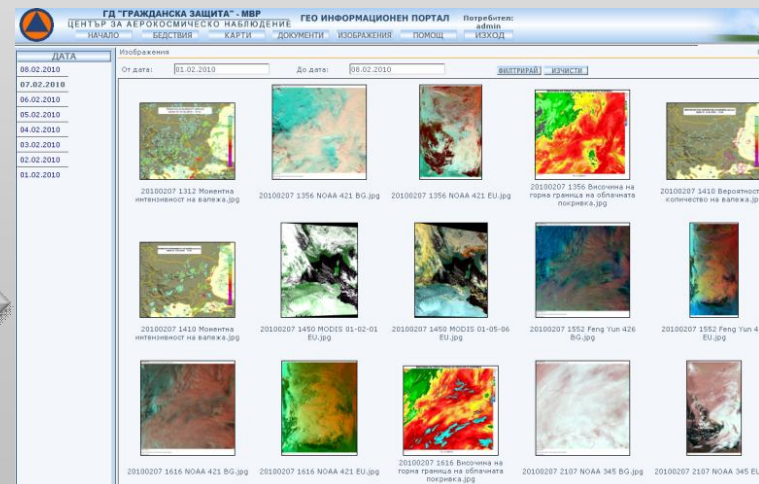


Data dissemination

The data and information from ASMC every day is given to the local and regional via Regional Administration

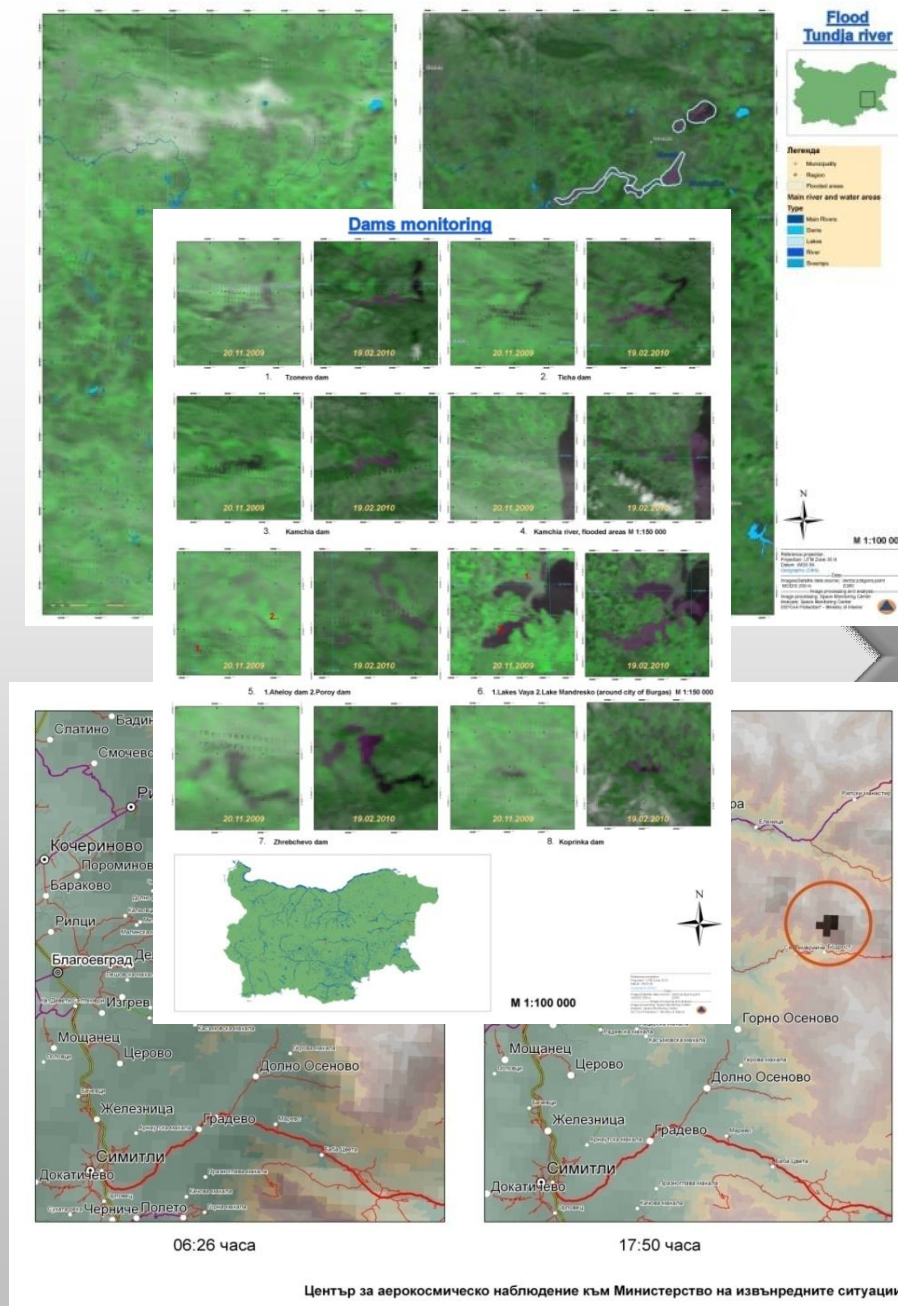


Data dissemination to all institutions involved in risk management process of natural hazards via WEB PORTAL





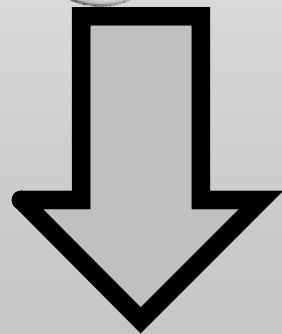
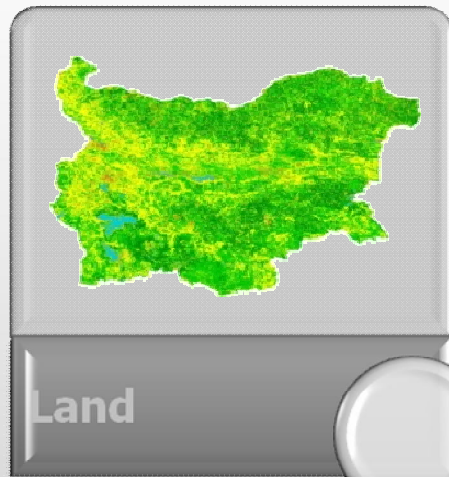
European Civil Protection



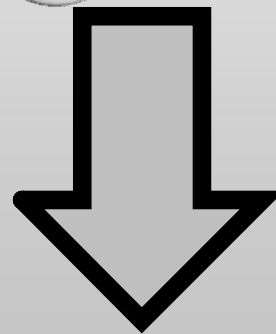
The Monitoring and Information Centre (MIC), operated by the European Commission in Brussels, is the operational heart of the Community Mechanism for Civil Protection

The Situation Center of DG Civil Protection is 24/7 national point of contact to MIC

Aerospace monitoring Center



**Land, marine
and atmosphere**



Climate change

**Emergency
and security**

